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DATE: Sunday, September 03, 2006

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	DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L5	(("6660471" | "6750009" | "6943246")!.PN.) .p63-p142.	3
☐	L4	L3	13
	DB=PGPB,USPT,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ		
☐	L3	L1 and mutant	92
☐	L2	L1 and transactivator	6
☐	L1	HCV adj replicon	325

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=> file caplus biosis
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FULL ESTIMATED COST 0.21 0.21

FILE 'CAPLUS' ENTERED AT 18:01:31 ON 03 SEP 2006
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FILE 'BIOSIS' ENTERED AT 18:01:31 ON 03 SEP 2006

=> HCV (s) replicon
L1 809 HCV (S) REPLICON

=> transactivation
L2 24813 TRANSACTIVATION

=> L2 and l1
L3 10 L2 AND L1

=> Tat and L3
L4 0 TAT AND L3

=> subgenomic (l) HCV
L5 495 SUBGENOMIC (L) HCV

=> replicon and L5
L6 419 REPLICON AND L5

=> T7 and L6

L7 4 T7 AND L6

=> Tat and L6
L8 6 TAT AND L6

=> D L6 IBBIB ABS 1-6
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L6 ANSWER 1 OF 419 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:889281 CAPLUS
TITLE: Replication of HCV subgenomic replicons in two new cell lines
AUTHOR(S): Wu, Gang; Wu, Ying-song; Dong, Wen-qi; Chen, Bai-hong; Li, Ming
CORPORATE SOURCE: Coll. Biotechnol., Southern Med. Univ., Guangzhou, 510515, Peop. Rep. China
SOURCE: Redai Yixue Zazhi (2006), 6(5), 514-517, C3, C2
CODEN: RYZEAI; ISSN: 1672-3619
PUBLISHER: Guangdong Redai Yixue Zazhishe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L6 ANSWER 2 OF 419 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:874383 CAPLUS
TITLE: Improved replicon cellular activity of non-nucleoside allosteric inhibitors of HCV NS5B polymerase: From benzimidazole to indole scaffolds
AUTHOR(S): Beaulieu, Pierre L.; Gillard, James; Bykowski, Darren; Brochu, Christian; Dansereau, Nathalie; Duceppe, Jean-Simon; Hache, Bruno; Jakalian, Araz; Lagace, Lisette; LaPlante, Steven; McKercher, Ginette; Moreau, Elaine; Perreault, Stephane; Stammers, Timothy; Thauvette, Louise; Warrington, Jeff; Kukolj, George
CORPORATE SOURCE: Research and Development, Boehringer Ingelheim (Canada) Ltd., 2100 Cunard Street, Laval (Quebec), H7S 2G5, Can.
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(19), 4987-4993
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal

LANGUAGE: English

L6 ANSWER 3 OF 419 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:861726 CAPLUS
TITLE: HepDirect- prodrugs of 2'-methyladenosine for liver-targeted therapy of hepatitis C
AUTHOR(S): Hecker, Scott J.; Reddy, K. Raja; van Poelje, Paul D.; Sun, Zhili; Mali, V. Reddy; Huang, Wenjian; Varkhedkar, Vaibhav; Fujitaki, James; Insko, Michael; Krutil, Douglas; Chi, Bert; Olsen, David B.; Koeplinger, Kenneth A.; Boyer, Serge H.; Linemeyer, David; MacCoss, Malcolm; Erion, Mark D.
CORPORATE SOURCE: Department of Medicinal Chemistry, Metabasis Therapeutics, Inc, La Jolla, CA, 92037, USA
SOURCE: Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006) , MEDI-271. American Chemical Society: Washington, D. C.
CODEN: 69IHRD
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English

L6 ANSWER 4 OF 419 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:861696 CAPLUS
TITLE: Synthesis and structure-activity relationship studies of benzimidazole and related compounds as hepatitis C virus NS5B RNA-dependent RNA polymerase inhibitors
AUTHOR(S): Oka, Takahiro; Hirashima, Shintaro; Ikegashira, Kazutaka; Noji, Satoru; Yamanaka, Hiroshi; Hara, Yoshinori; Ishida, Tomio; Suzuki, Takayoshi; Yata, Shinji; Ando, Izuru; Ikeda, Satoru; Hashimoto, Hiromasa
CORPORATE SOURCE: Central Pharmaceutical Research Institute, Japan Tobacco Inc, Takatsuki, Osaka, N/A, Japan
SOURCE: Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006) , MEDI-241. American Chemical Society: Washington, D. C.
CODEN: 69IHRD
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English

L6 ANSWER 5 OF 419 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:861695 CAPLUS
TITLE: Discovery of VP19744: A pyrano[3,4-b]indole-based inhibitor of HCV NS5B polymerase demonstrating in vivo

antiviral activity
AUTHOR(S): LaPorte, Matthew G.; Jackson, Randy W.; Burns, Christopher J.; Draper, Tandy L.; Gaboury, Janet A.; Galie, Kristin; Herbertz, Torsten; Hussey, Alison R.; Rippin, Susan R.; Benetatos, Christopher A.; Chunduru, Srinivas K.; Young, Dorothy C.; Christiansen, Joel S.; Coburn, Glen A.; Rizzo, Christopher J.; Collett, Marc S.; Pevear, Daniel C.; Condon, Stephen M.
CORPORATE SOURCE: Department of Medicinal Chemistry, ViroPharma Inc, Exton, PA, 19341, USA
SOURCE: Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006) , MEDI-240. American Chemical Society: Washington, D. C.
CODEN: 69IHRD
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English

L6 ANSWER 6 OF 419 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:856575 CAPLUS
TITLE: Bleomycin is a potent small molecule inhibitor of hepatitis C virus replication
AUTHOR(S): Rakic, Bojana; Brulotte, Marc; Pezacki, John Paul
CORPORATE SOURCE: The Steacie Institute for Molecular Sciences, National Research Council Canada/ University of Ottawa, Ottawa, ON, K1A 0R6, Can.
SOURCE: Abstracts of Papers, 232nd ACS National Meeting, San Francisco, CA, United States, Sept. 10-14, 2006 (2006) , BIOL-094. American Chemical Society: Washington, D. C.
CODEN: 69IHRD
DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)
LANGUAGE: English

=> D L7 IBIB ABS 1-4

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:889281 CAPLUS
TITLE: Replication of HCV subgenomic replicons in two new cell lines
AUTHOR(S): Wu, Gang; Wu, Ying-song; Dong, Wen-qi; Chen, Bai-hong; Li, Ming
CORPORATE SOURCE: Coll. Biotechnol., Southern Med. Univ., Guangzhou, 510515, Peop. Rep. China
SOURCE: Redai Yixue Zazhi (2006), 6(5), 514-517, C3, C2

CODEN: RYZEAI; ISSN: 1672-3619
PUBLISHER: Guangdong Redai Yixue Zazhishe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB Objective: HCV is a major leading cause of chronic liver diseases. Very little is known about HCV until the HCV virus was cloned in 1989. The major obstacles in the study HCV are (1) the virus particles are not frequently found in the blood and hepatobiopsy samples, (2) lack of a robust culture system and (3) lack of a convenient small animal model. The great progress in the field of in vitro HCV culture was the establishment of the selectable subgenomic replicon system in 1999. The system provides a platform to study the replication mechanism of the virus, the relationship between the virus and its host cells, and the metabolic characteristic of enzymes encoded by HCV. The system is also useful for scanning of new compds. against HCV. However the system is restricted to use in only a few cell lines such as Huh7, 293, Hela and Hepa1-6. Another drawback is the lack of structural genes in the replicon so it produces no virus particles. Thus it is desirable to have an improved replicon system. But it is uncertain that the replicon-sustained cell lines now existing have the cellular condition favorable for virus particles assembly and secretion, so we first screened for more replicon-sustained cells. Methods: The plasmid pNNeo3-5B comprises replicon cDNA of HCV-N. This replicon RNA has previously been proved to have the ability to replicate in Huh7. Deleting pNNeo3-SB BsaB I -Hpa I segment, which covers the NS5B GDD motif, resulted in a replicate-deficient replicon plasmid pNNeo3- 5B(A). After digestion with Xba I , the two plasmids were transcripted with T7 RNA polymerase to produce rNNeo3-5B and rNNeo3-5B (A). A panel of mammalian cell lines including Huh7, SMMC7721, HepG2, BEL7402, Lo2, CBRH7919, BHK_, Vero E6, 293 and 293T were electroporated with rNNeo3-5B, followed by feeding the medium with G418 at 800 pig/mL. Results: After three weeks, cell clones were found only in CBRH7919 and BHK21. Electroporating of cells with rNNeo3-5B(.DELTA.) failed to confer G418 resistance. Cells without replicon dropped off when fed with G418 at the same concn. Results from RT-PCR confirmed that the replicon RNA efficiently replicated in each clone. Conclusion: The expression of HCV NS3 and NS5A proteins was validated by immunofluorescence and Western blot. This work provides evidence that CBRH7919 and BHK21 cells can sustain HCV replicon, therefore they are potential hosts for HCV particles.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:315056 CAPLUS

DOCUMENT NUMBER: 145:4018
TITLE: Inhibition of hepatitis C virus RNA replication by short hairpin RNA synthesized by T7 RNA polymerase in hepatitis C virus subgenomic replicons
AUTHOR(S): Hamazaki, Hiroyuki; Ujino, Saneyuki; Miyano-Kurosaki, Naoko; Shimotohno, Kunitada; Takaku, Hiroshi
CORPORATE SOURCE: Department of Life and Environmental Sciences, Chiba Institute of Technology, 2-17-1 Tsudanuma, Narashino, Chiba, 275-0016, Japan
SOURCE: Biochemical and Biophysical Research Communications (2006), 343(3), 988-994
CODEN: BBRCA9; ISSN: 0006-291X
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB RNA interference (RNAi) is a cellular process that induces gene silencing by which small duplexes of RNA specifically target a homologous sequence for cleavage by cellular RNases. Here, to test the RNAi method for blocking hepatitis C virus (HCV) RNA replication, we created four short hairpin RNAs (shRNAs) targeting the HCV internal ribosome entry site/Core gene transcript using T7 RNA polymerase. ShRNA suppressed the replication of HCV RNA in the HCV replicon. On the other hand, short interfering RNAs synthesized using the T7 RNA polymerase system trigger a potent induction of interferon-.alpha. and -.beta. in a variety of cells. We examd. whether the shRNAs synthesized using the T7 RNA polymerase system activated double-stranded RNA-dependent protein kinase, 2'-5' oligoadenylate synthetase, or interferon-regulatory factor-3. Our results demonstrated that the T7-transcribed shRNA did not activate these proteins in Huh-7 cells and the HCV replicon. These shRNAs are a promising new strategy for anti-HCV gene therapeutics.
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:407405 CAPLUS
DOCUMENT NUMBER: 139:239740
TITLE: The effect of ribavirin and IMPDH inhibitors on hepatitis C virus subgenomic replicon RNA
AUTHOR(S): Zhou, Sifang; Liu, Rong; Baroudy, Bahige M.; Malcolm, Bruce A.; Reyes, Gregory R.
CORPORATE SOURCE: Antiviral Therapy, Schering-Plough Research Institute, Kenilworth, NJ, 07033, USA
SOURCE: Virology (2003), 310(2), 333-342

CODEN: VIRLAX; ISSN: 0042-6822
PUBLISHER: Elsevier Science
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The recent development of in vitro hepatitis C virus (HCV) RNA replication systems has provided useful tools for studying the intracellular anti-HCV activity of ribavirin. Ribavirin has been shown to: induce "error catastrophe" in poliovirus be a pseudo-substrate of the HCV RNA-dependent RNA polymerase (RdRp) in vitro, and increase mutations in HCV RNA in the binary T7 polymerase/HCV cDNA replication system. These findings have led to the hypothesis that ribavirin may also induce error catastrophe in HCV. However, the functional relevance of ribavirin-induced HCV RNA mutagenesis is unclear. By use of a colony formation assay, in which RNA is isolated from the HCV subgenomic replicon system following treatment, the impact of ribavirin, inosine-5'-monophosphate dehydrogenase (IMPDH) inhibitors, and the combination was assessed. Ribavirin reduced HCV replicon colony-forming efficiency (CFE) in a dose-dependent fashion, suggesting that ribavirin may be misincorporated into replicon RNA and result in an anti-replicon effect analogous to error catastrophe. This effect was markedly suppressed by addn. of exogenous guanosine. Combination treatment with ribavirin and mycophenolic acid (MPA) or VX-497, both potent, nonnucleoside IMPDH inhibitors, led to a greatly enhanced anti-replicon effect. This enhancement was reversed by inclusion of guanosine with the treatment. In contrast, MPA or VX-497 alone had only marginal effects on both the quantity and quality (CFE) of replicon RNA, suggesting that although IMPDH inhibition is an important contributing factor to the overall ribavirin anti-HCV replicon activity, IMPDH inhibition by itself is not sufficient to exert an anti-HCV effect. Sequencing data targeting the neo gene segment of the HCV replicon indicated that ribavirin together with MPA or VX-497 increased the replicon error rate by about two-fold. Taken together these results further suggest that lethal mutagenesis may be an effective anti-HCV strategy. The colony formation assay provides a useful tool for evaluating mutagenic nucleoside analogs for HCV therapy. Finally, the data from combination treatment indicate potential therapeutic value for an enhanced anti-HCV effect when using ribavirin in combination with IMPDH inhibition.
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:303187 BIOSIS
DOCUMENT NUMBER: PREV200300303187
TITLE: The effect of ribavirin and IMPDH inhibitors on hepatitis C virus subgenomic replicon RNA.
AUTHOR(S): Zhou, Sifang; Liu, Rong; Baroudy, Bahige M.; Malcolm, Bruce A.; Reyes, Gregory R. [Reprint Author]
CORPORATE SOURCE: Infectious Diseases and Oncology, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ, 07033, USA
gregory.reyes@spcorp.com
SOURCE: Virology, (June 5 2003) Vol. 310, No. 2, pp. 333-342. print.
ISSN: 0042-6822 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 2 Jul 2003
Last Updated on STN: 2 Jul 2003
AB The recent development of in vitro hepatitis C virus (HCV) RNA replication systems has provided useful tools for studying the intracellular anti-HCV activity of ribavirin. Ribavirin has been shown to: (1) induce "error catastrophe" in poliovirus (Crotty et al., 2001, Proc. Natl. Acad. Sci. USA 98, 6895-6900), (2) be a pseudo-substrate of the HCV RNA-dependent RNA polymerase (RdRp) in vitro (Maag et al., 2001, J. Biol. Chem. 276, 46094-46098), and (3) increase mutations in HCV RNA in the binary T7 polymerase/HCV cDNA replication system (Contreras et al., 2002, J. Virol. 76, 8505-8517). These findings have led to the hypothesis that ribavirin may also induce error catastrophe in HCV. However, the functional relevance of ribavirin-induced HCV RNA mutagenesis is unclear. By use of a colony formation assay, in which RNA is isolated from the HCV subgenomic replicon system following treatment, the impact of ribavirin, inosine-5'-monophosphate dehydrogenase (IMPDH) inhibitors, and the combination was assessed. Ribavirin reduced HCV replicon colony-forming efficiency (CFE) in a dose-dependent fashion, suggesting that ribavirin may be misincorporated into replicon RNA and result in an anti-replicon effect analogous to error catastrophe. This effect was markedly suppressed by addition of exogenous guanosine. Combination treatment with ribavirin and mycophenolic acid (MPA) or VX-497, both potent, nonnucleoside IMPDH inhibitors, led to a greatly enhanced anti-replicon effect. This enhancement was reversed by inclusion of guanosine with the treatment. In contrast, MPA or VX-497 alone had only marginal effects on both the quantity and quality (CFE) of replicon RNA, suggesting that although IMPDH inhibition

is an important contributing factor to the overall ribavirin anti-HCV replicon activity. IMPDH inhibition by itself is not sufficient to exert an anti-HCV effect. Sequencing data targeting the neo gene segment of the HCV replicon indicated that ribavirin together with MPA or VX-497 increased the replicon error rate by about two-fold. Taken together these results further suggest that lethal mutagenesis may be an effective anti-HCV strategy. The colony formation assay provides a useful tool for evaluating mutagenic nucleoside analogs for HCV therapy. Finally, the data from combination treatment indicate potential therapeutic value for an enhanced anti-HCV effect when using ribavirin in combination with IMPDH inhibition.

=> D L8 IBIB ABS 1-6

L8 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1017584 CAPLUS
DOCUMENT NUMBER: 143:434627
TITLE: Mutagenesis analysis of the rGTP-specific binding site of hepatitis C virus RNA-dependent RNA polymerase
AUTHOR(S): Cai, Zhaohui; Yi, MinKyung; Zhang, Chen; Luo, Guangxiang
CORPORATE SOURCE: Department of Microbiology, Immunology, and Molecular Genetics, University of Kentucky College of Medicine, Lexington, KY, 40536, USA
SOURCE: Journal of Virology (2005), 79(18), 11607-11617
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Hepatitis C virus (HCV) nonstructural protein 5B (NS5B) is the virus-encoded RNA-dependent RNA polymerase (RdRp) essential for HCV RNA replication. An earlier crystallog. study identified a rGTP-specific binding site lying at the surface between the thumb domain and the fingertip about 30 A away from the active site of the HCV RdRp. To det. its physiol. importance, we performed a systematic mutagenesis anal. of the rGTP-specific binding pocket by amino acid substitutions. Effects of mutations of the rGTP-specific binding site on enzymic activity were detd. by an in vitro RdRp assay, while effects of mutations on HCV RNA replication were examd. by cell colony formation, as well as by transient replication of subgenomic HCV RNAs. Results derived from these studies demonstrate that amino acid substitutions of the rGTP-specific binding pocket did not significantly affect the in vitro RdRp activity of purified recombinant NS5B proteins, as measured by their abilities to synthesize RNA on an RNA

template contg. the 3' untranslated region of HCV neg.-strand RNA. However, most mutations of the rGTP-specific binding site either impaired or completely ablated the ability of subgenomic HCV RNAs to induce cell colony formation. Likewise, these mutations caused either redn. in or lethality to transient replication of the human immunodeficiency virus Tat-expressing HCV replicon RNAs in the cell. Collectively, these findings demonstrate that the rGTP-specific binding site of the HCV NS5B is not required for in vitro RdRp activity but is important for HCV RNA replication in vivo.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:761023 CAPLUS

DOCUMENT NUMBER: 144:142050

TITLE: Screening for hepatitis C virus antiviral activity with a cell-based secreted alkaline phosphatase reporter replicon system

AUTHOR(S): Bourne, Nigel; Pyles, Richard B.; Yi, MinKyung; Veselenak, Ronald L.; Davis, Melissa M.; Lemon, Stanley M.

CORPORATE SOURCE: Department of Pediatrics, Department of Micorbiology and Immunology, University of Texas Medical Branch, Galveston, TX, 77555-0436, USA

SOURCE: Antiviral Research (2005), 67(2), 76-82
CODEN: ARSRDR; ISSN: 0166-3542

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors describe a phased screening system for discovery of compds. with antiviral activity against hepatitis C virus (HCV). The primary assay utilizes dicistronic subgenomic HCV replicons in which the upstream cistron was modified to express the human immunodeficiency virus (HIV) tat protein. When these replicons are stably transfected into Huh-7-derived cells that express secreted alk. phosphatase (SEAP) under transcriptional control of the HIV long terminal repeat promoter, there is a strong correlation between intracellular HCV RNA abundance and the activity of SEAP secreted into the culture medium. Thus, active compds. are easily identified by direct enzymic quantification of SEAP in the medium without post-assay processing. Compds. that reduce SEAP activity without causing cellular toxicity are next evaluated in a second Huh-7-derived cell line constitutively expressing SEAP under control of the tat-HIV promoter axis, independent of HCV RNA replication. This

specificity control identifies compds. that cause redns. in SEAP that are unrelated to suppression of HCV RNA replication. Compds. showing HCV-specific activity in primary assays are next evaluated by real-time RT-PCR to directly quantify redns. in HCV RNA. The authors have found excellent agreement between the SEAP and RT-PCR assays. This phased system provides an efficient and cost-effective screen for compds. with antiviral activity against HCV.

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:969892 CAPLUS
DOCUMENT NUMBER: 138:249449
TITLE: Subgenomic Hepatitis C Virus Replicons Inducing Expression of a Secreted Enzymatic Reporter Protein
AUTHOR(S): Yi, MinKyung; Bodola, Francis; Lemon, Stanley M.
CORPORATE SOURCE: Department of Microbiology and Immunology, The University of Texas Medical Branch at Galveston, Galveston, TX, 77555-1019, USA
SOURCE: Virology (2002), 304(2), 197-210
CODEN: VIRLAX; ISSN: 0042-6822
PUBLISHER: Elsevier Science
DOCUMENT TYPE: Journal
LANGUAGE: English

AB We constructed dicistronic, subgenomic hepatitis C virus (HCV) replicons in which the sequence encoding the human immunodeficiency virus (HIV) tat protein was placed in the upstream cistron, between the HCV 5'NTR and a picornaviral 2A proteinase sequence fused to the selectable marker Neo. Stably transformed Huh7 cells expressing secreted alk. phosphatase (SEAP) under transcriptional control of the HIV LTR promoter actively secreted SEAP following transfection with these replicon RNAs. Extracellular SEAP activity correlated closely with intracellular HCV RNA levels, as detd. by Northern blotting and real-time RT-PCR anal. These RNAs replicated efficiently despite the absence of core-protein-coding sequence downstream of the HCV IRES. The replication efficiency of replicons derived from the HCV-N strain of HCV was significantly greater than those derived from Con1 in transiently transfected cells. Using this reporter system, we have demonstrated significant differences in the response to interferon .alpha.-2b in cell lines contg. replicons derived from these two strains of HCV.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 6 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:514751 BIOSIS
DOCUMENT NUMBER: PREV200510306576
TITLE: Mutagenesis analysis of the rGTP-specific binding site of hepatitis C virus RNA-dependent RNA polymerase.
AUTHOR(S): Cai, Zhaohui; Yi, MinKyung; Zhang, Chen; Luo, Guangxiang [Reprint Author]
CORPORATE SOURCE: Univ Kentucky, Dept Microbiol Mol Genet and Immunol, Coll
Med, 800 Rose St,MN477, Lexington, KY 40536 USA
gluo0@uky.edu
SOURCE: Journal of Virology, (SEP 2005) Vol. 79, No. 18, pp. 11607-11617.
CODEN: JOVIAM. ISSN: 0022-538X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 23 Nov 2005
Last Updated on STN: 23 Nov 2005
AB Hepatitis C virus (HCV) nonstructural protein 5B (NS5B) is the virus-encoded RNA-dependent RNA polymerase (RdRp) essential for HCV RNA replication. An earlier crystallographic study identified a rGTP-specific binding site lying at the surface between the thumb domain and the fingertip about 30 angstrom away from the active site of the HCV RdRp (S. Bressanelli, L. Tomei, F. A. Rey, and R. De Francesco, J. Virol 76:3482-3492, 2002). To determine its physiological importance, we performed a systematic mutagenesis analysis of the rGTP-specific binding pocket by amino acid substitutions. Effects of mutations of the rGTP-specific binding site on enzymatic activity were determined by an in vitro RdRp assay, while effects of mutations on HCV RNA replication were examined by cell colony formation, as well as by transient replication of subgenomic HCV RNAs. Results derived from these studies demonstrate that amino acid substitutions of the rGTP-specific binding pocket did not significantly affect the in vitro RdRp activity of purified recombinant NS5B proteins, as measured by their abilities to synthesize RNA on an RNA template containing the 3' untranslated region of HCV negative-strand RNA. However, most mutations of the rGTP-specific binding site either impaired or completely ablated the ability of subgenomic HCV RNAs to induce cell colony formation. Likewise, these mutations caused either reduction in or lethality to transient replication of the human immunodeficiency virus Tat-expressing HCV

replicon RNAs in the cell. Collectively, these findings demonstrate that the rGTP-specific binding site of the HCV NS5B is not required for in vitro RdRp activity but is important for HCV RNA replication in vivo.

L8 ANSWER 5 OF 6 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:499441 BIOSIS
DOCUMENT NUMBER: PREV200510264656
TITLE: Screening for hepatitis C virus antiviral activity with a cell-based secreted alkaline phosphatase reporter replicon system.
AUTHOR(S): Bourne, Nigel [Reprint Author]; Pyles, Richard B.; Yi, MinKyung; Veselenak, Ronald L.; Davis, Melissa M.; Lemon, Stanley M.
CORPORATE SOURCE: Univ Texas, Med Branch, Dept Pediat, 301 Univ Blvd, Galveston, TX 77555 USA
nibourne@utmb.edu
SOURCE: Antiviral Research, (AUG 2005) Vol. 67, No. 2, pp. 76-82.
CODEN: ARSRDR. ISSN: 0166-3542.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 16 Nov 2005
Last Updated on STN: 16 Nov 2005
AB We describe a phased screening system for discovery of compounds with antiviral activity against hepatitis C virus (HCV). The primary assay utilizes dicistronic subgenomic HCV replicons in which the upstream cistron was modified to express the human immunodeficiency virus (HIV) tat protein. When these replicons are stably transfected into Huh-7-derived cells that express secreted alkaline phosphatase (SEAP) under transcriptional control of the HIV long terminal repeat promoter, there is a strong correlation between intracellular HCV RNA abundance and the activity of SEAP secreted into the culture medium. Thus, active compounds are easily identified by direct enzymatic quantification of SEAP in the medium without post-assay processing. Compounds that reduce SEAP activity without causing cellular toxicity are next evaluated in a second Huh-7-derived cell line constitutively expressing SEAP under control of the tat-HIV promoter axis, independent of HCV RNA replication. This specificity control identifies compounds that cause reductions in SEAP that are unrelated to suppression of HCV RNA replication. Compounds showing HCV-specific activity in primary assays are next evaluated by real-time RT-PCR to directly quantify reductions in HCV RNA. We have found excellent agreement between the SEAP and RT-PCR assays. This phased system provides an efficient and cost-effective screen for compounds with antiviral activity

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L8 ANSWER 6 OF 6 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:40211 BIOSIS
DOCUMENT NUMBER: PREV200300040211
TITLE: Subgenomic hepatitis C virus replicons inducing expression of a secreted enzymatic reporter protein.
AUTHOR(S): Yi, Minkyung; Bodola, Francis; Lemon, Stanley M. [Reprint Author]
CORPORATE SOURCE: Department of Microbiology and Immunology, Medical Branch
at Galveston, University of Texas, 301 University Boulevard, Galveston, TX, 77555-1019, USA
smlemon@utmb.edu
SOURCE: Virology, (December 20 2002) Vol. 304, No. 2, pp. 197-210. print.
ISSN: 0042-6822 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 15 Jan 2003
Last Updated on STN: 15 Jan 2003
AB We constructed dicistronic, subgenomic hepatitis C virus (HCV) replicons in which the sequence encoding the human immunodeficiency virus (HIV) tat protein was placed in the upstream cistron, between the HCV 5'NTR and a picornaviral 2A proteinase sequence fused to the selectable marker Neo. Stably transformed Huh7 cells expressing secreted alkaline phosphatase (SEAP) under transcriptional control of the HIV LTR promoter actively secreted SEAP following transfection with these replicon RNAs. Extracellular SEAP activity correlated closely with intracellular HCV RNA levels, as determined by Northern blotting and real-time RT-PCR analysis. These RNAs replicated efficiently despite the absence of core-protein-coding sequence downstream of the HCV IRES. The replication efficiency of replicons derived from the HCV -N strain of HCV was significantly greater than those derived from Con1 in transiently transfected cells. Using this reporter system, we have demonstrated significant differences in the response to interferon alpha-2b in cell lines containing replicons derived from these two strains of HCV.

=> mutant and l1
L9 91 MUTANT AND L1

=> replicon and L9

L10 91 REPLICON AND L9

=> subgenomic and L10
L11 54 SUBGENOMIC AND L10

=> D L11 IBIB TI 1-54

L11 ANSWER 1 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:478128 CAPLUS
DOCUMENT NUMBER: 145:202057
TITLE: Inhibition of hepatitis C replicon RNA synthesis by .beta.-D-2'-deoxy-2'-fluoro-2'-C-methylcytidine: a specific inhibitor of hepatitis C virus replication
AUTHOR(S): Stuyver, Lieven J.; McBrayer, Tamara R.; Tharnish, Phillip M.; Clark, Jeremy; Hollecker, Laurent; Lostia, Stefania; Nachman, Tammy; Grier, Jason; Bennett, Matthew A.; Xie, Meng-Yu; Schinazi, Raymond F.; Morrey, John D.; Julander, Justin L.; Furman, Phillip A.; Otto, Michael J.
CORPORATE SOURCE: Pharmasset Inc, Princeton, NJ, USA
SOURCE: Antiviral Chemistry & Chemotherapy (2006), 17(2), 79-87
CODEN: ACCHEH; ISSN: 0956-3202
PUBLISHER: International Medical Press, Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Inhibition of hepatitis C replicon RNA synthesis by .beta.-D-2'-deoxy-2'-fluoro-2'-C-methylcytidine: a specific inhibitor of hepatitis C virus replication
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:326091 CAPLUS
DOCUMENT NUMBER: 144:366251
TITLE: Effect of hepatitis C virus (HCV) NS5B-nucleolin interaction on HCV replication with HCV subgenomic replicon
AUTHOR(S): Shimakami, Tetsuro; Honda, Masao; Kusakawa, Takashi; Murata, Takayuki; Shimotohno, Kunitada; Kaneko, Shuichi; Murakami, Seishi
CORPORATE SOURCE: Department of Gastroenterology, Kanazawa University Graduate School of Medicine, Kanazawa, Ishikawa,

920-0934, Japan
SOURCE: Journal of Virology (2006), 80(7), 3332-3340
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Effect of hepatitis C virus (HCV) NS5B-nucleolin interaction on HCV replication with HCV subgenomic replicon
REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:110540 CAPLUS
DOCUMENT NUMBER: 144:365287
TITLE: Structural and Biological Identification of Residues on the Surface of NS3 Helicase Required for Optimal Replication of the Hepatitis C Virus
AUTHOR(S): Mackintosh, Samuel G.; Lu, Jeff Zhiqiang; Jordan, John B.; Harrison, Melody K.; Sikora, Bartek; Sharma, Suresh D.; Cameron, Craig E.; Raney, Kevin D.; Sakon, Joshua
CORPORATE SOURCE: Department of Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, Little Rock, AR, 72205, USA
SOURCE: Journal of Biological Chemistry (2006), 281(6), 3528-3535
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Structural and Biological Identification of Residues on the Surface of NS3 Helicase Required for Optimal Replication of the Hepatitis C Virus
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:109038 CAPLUS
DOCUMENT NUMBER: 144:461804
TITLE: Insertion and deletion analyses identify regions of non-structural protein 5A of Hepatitis C virus that are dispensable for viral genome replication
AUTHOR(S): Liu, Shuanghu; Ansari, Israrul H.; Das, Subash C.;

Pattnaik, Asit K.
CORPORATE SOURCE: Department of Veterinary and Biomedical Sciences and Nebraska Center for Virology, University of Nebraska-Lincoln (UNL), Lincoln, NE, 68588-0666, USA
SOURCE: Journal of General Virology (2006), 87(2), 323-327
CODEN: JGVIAY; ISSN: 0022-1317
PUBLISHER: Society for General Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Insertion and deletion analyses identify regions of non-structural protein 5A of Hepatitis C virus that are dispensable for viral genome replication
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1235073 CAPLUS
DOCUMENT NUMBER: 144:123735
TITLE: Binding Site Characterization and Resistance to a Class of Non-nucleoside Inhibitors of the Hepatitis C Virus NS5B Polymerase
AUTHOR(S): Kukolj, George; McGibbon, Graham A.; McKercher, Ginette; Marquis, Martin; Lefebvre, Sylvain; Thauvette, Louise; Gauthier, Jean; Goulet, Sylvie; Poupart, Marc-Andre; Beaulieu, Pierre L.
CORPORATE SOURCE: Departments of Biological Sciences and Chemistry, Research and Development, Boehringer Ingelheim, Ltd., Laval, QC, H7S 2G5, Can.
SOURCE: Journal of Biological Chemistry (2005), 280(47), 39260-39267
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Binding Site Characterization and Resistance to a Class of Non-nucleoside Inhibitors of the Hepatitis C Virus NS5B Polymerase
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1191118 CAPLUS
DOCUMENT NUMBER: 144:18739
TITLE: Functional Analysis of RNA Binding by the Hepatitis C Virus RNA-dependent RNA Polymerase

AUTHOR(S): Kim, Young-Chan; Russell, William K.; Ranjith-Kumar, C. T.; Thomson, Michael; Russell, David H.; Kao, C. Cheng
CORPORATE SOURCE: Departments of Biochemistry and Biophysics, Texas A&M University, College Station, TX, 77843, USA
SOURCE: Journal of Biological Chemistry (2005), 280(45), 38011-38019
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Functional Analysis of RNA Binding by the Hepatitis C Virus RNA-dependent RNA Polymerase
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1160403 CAPLUS
DOCUMENT NUMBER: 144:1953
TITLE: Human VAP-B is involved in hepatitis C virus replication through interaction with NS5A and NS5B
AUTHOR(S): Hamamoto, Itsuki; Nishimura, Yorihiro; Okamoto, Toru; Aizaki, Hideki; Liu, Minyi; Mori, Yoshio; Abe, Takayuki; Suzuki, Tetsuro; Lai, Michael M. C.; Miyamura, Tatsuo; Moriishi, Kohji; Matsuura, Yoshiharu
CORPORATE SOURCE: Department of Molecular Virology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan
SOURCE: Journal of Virology (2005), 79(21), 13473-13482
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Human VAP-B is involved in hepatitis C virus replication through interaction with NS5A and NS5B
REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1093801 CAPLUS
DOCUMENT NUMBER: 144:17755
TITLE: Mutations conferring resistance to a hepatitis C virus (HCV) RNA-dependent RNA polymerase inhibitor alone or

in combination with an HCV serine protease inhibitor in vitro

AUTHOR(S): Mo, Hongmei; Lu, Liangjun; Pilot-Matias, Tami; Pithawalla, Ron; Mondal, Rubina; Masse, Sherie; Dekhtyar, Tatyana; Ng, Teresa; Koev, Gennadiy; Stoll, Vincent; Stewart, Kent D.; Pratt, John; Donner, Pam; Rockway, Todd; Maring, Clarence; Molla, Akhteruzzaman

CORPORATE SOURCE: Antiviral Research, Abbott Laboratories Global Pharmaceutical Research and Development, Abbott Park, IL, USA

SOURCE: Antimicrobial Agents and Chemotherapy (2005), 49(10), 4305-4314
CODEN: AMACCQ; ISSN: 0066-4804

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Mutations conferring resistance to a hepatitis C virus (HCV) RNA-dependent RNA polymerase inhibitor alone or in combination with an HCV serine protease inhibitor in vitro

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:592612 CAPLUS

DOCUMENT NUMBER: 144:200

TITLE: Inhibition of hepatitis C virus translation and subgenomic replication by siRNAs directed against highly conserved HCV sequence and cellular HCV cofactors

AUTHOR(S): Korf, Mortimer; Jarczak, Dominik; Beger, Carmela; Manns, Michael P.; Kruger, Martin

CORPORATE SOURCE: Department of Gastroenterology, Hepatology and Endocrinology, Medizinische Hochschule Hannover, Hannover, D-30625, Germany

SOURCE: Journal of Hepatology (2005), 43(2), 225-234
CODEN: JOHEEC; ISSN: 0168-8278

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Inhibition of hepatitis C virus translation and subgenomic replication by siRNAs directed against highly conserved HCV sequence and cellular HCV cofactors

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:409553 CAPLUS
DOCUMENT NUMBER: 142:459118
TITLE: HCV NS3-NS4A protease resistance mutants affecting the activity of NS3-NS4A inhibitory drugs VX-950 and BILN2061 and structure-based anti-HCV drug design
INVENTOR(S): Lin, Chao; Lin, Kai
PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA
SOURCE: PCT Int. Appl., 113 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042570	A1	20050512	WO 2004-US35839	20041027
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004285019	A1	20050512	AU 2004-285019	20041027
CA 2551074	AA	20050512	CA 2004-2551074	20041027
US 2005136400	A1	20050623	US 2004-974558	20041027
EP 1678202	A1	20060712	EP 2004-817468	20041027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				

PRIORITY APPLN. INFO.: US 2003-514740P P 20031027
US 2003-525222P P 20031126
US 2004-561662P P 20040413
WO 2004-US35839 W 20041027

TI HCV NS3-NS4A protease resistance mutants affecting the activity of NS3-NS4A inhibitory drugs VX-950 and BILN2061 and structure-based anti-HCV drug design

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:52923 CAPLUS
DOCUMENT NUMBER: 142:274932
TITLE: Efficient rescue of hepatitis C virus RNA replication by trans-complementation with nonstructural protein 5A
AUTHOR(S): Appel, Nicole; Herian, Ulrike; Bartenschlager, Ralf
CORPORATE SOURCE: Department of Molecular Virology, University of Heidelberg, Heidelberg, Germany
SOURCE: Journal of Virology (2005), 79(2), 896-909
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Efficient rescue of hepatitis C virus RNA replication by trans-complementation with nonstructural protein 5A
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:458331 CAPLUS
DOCUMENT NUMBER: 141:119287
TITLE: Mutational Analysis of Hepatitis C Virus NS5B in the Subgenomic Replicon Cell Culture
AUTHOR(S): Ma, Yuanyuan; Shimakami, Tetsuro; Luo, Hong; Hayashi, Naoyuki; Murakami, Seishi
CORPORATE SOURCE: Department of Molecular Oncology, Cancer Research Institute, Kanazawa University Graduate School of Medicine, Kanazawa, Ishikawa, 920-0934, Japan
SOURCE: Journal of Biological Chemistry (2004), 279(24), 25474-25482
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Mutational Analysis of Hepatitis C Virus NS5B in the Subgenomic Replicon Cell Culture
REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 13 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:325457 CAPLUS

DOCUMENT NUMBER: 141:16899
TITLE: In Vitro Resistance Studies of Hepatitis C Virus Serine Protease Inhibitors, VX-950 and BILN 2061: structural analysis indicates different resistance mechanisms
AUTHOR(S): Lin, Chao; Lin, Kai; Luong, Yu-Ping; Rao, B. Govinda; Wei, Yun-Yi; Brennan, Debra L.; Fulghum, John R.; Hsiao, Hsun-Mei; Ma, Sue; Maxwell, John P.; Cottrell, Kevin M.; Perni, Robert B.; Gates, Cynthia A.; Kwong, Ann D.
CORPORATE SOURCE: Vertex Pharmaceuticals Inc., Cambridge, MA, 02139, USA
SOURCE: Journal of Biological Chemistry (2004), 279(17), 17508-17514
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI In Vitro Resistance Studies of Hepatitis C Virus Serine Protease Inhibitors, VX-950 and BILN 2061: structural analysis indicates different resistance mechanisms
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 14 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:266699 CAPLUS
DOCUMENT NUMBER: 140:420498
TITLE: The C-terminal transmembrane domain of hepatitis C virus (HCV) RNA polymerase is essential for HCV replication in vivo
AUTHOR(S): Lee, Ki Jeong; Choi, Jinah; Ou, Jing-hsiung; Lai, Michael M. C.
CORPORATE SOURCE: Department of Molecular Microbiology and Immunology, Keck School of Medicine, University of Southern California, Los Angeles, CA, 90033, USA
SOURCE: Journal of Virology (2004), 78(7), 3797-3802
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI The C-terminal transmembrane domain of hepatitis C virus (HCV) RNA polymerase is essential for HCV replication in vivo
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:248771 CAPLUS
DOCUMENT NUMBER: 140:389517
TITLE: Induced oxidative stress and activated expression of manganese superoxide dismutase during hepatitis C virus replication: role of JNK, p38 MAPK and AP-1
AUTHOR(S): Qadri, Ishtiaq; Iwahashi, Mieko; Capasso, Juan M.; Hopken, Matthew W.; Flores, Sonia; Schaack, Jerome; Simon, Francis R.
CORPORATE SOURCE: Division of Gastroenterology and Hepatology, Department of Medicine, University of Colorado Health Sciences Center, Denver, CO, 80262, USA
SOURCE: Biochemical Journal (2004), 378(3), 919-928
CODEN: BIJOAK; ISSN: 0264-6021
PUBLISHER: Portland Press Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Induced oxidative stress and activated expression of manganese superoxide dismutase during hepatitis C virus replication: role of JNK, p38 MAPK and AP-1
REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 16 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:39320 CAPLUS
DOCUMENT NUMBER: 140:263848
TITLE: Characterization of the inhibition of hepatitis C virus RNA replication by nonnucleosides
AUTHOR(S): Tomei, Licia; Altamura, Sergio; Bartholomew, Linda; Bisbocci, Monica; Bailey, Carolyn; Bosserman, Michele; Cellucci, Antonella; Forte, Eleonora; Incitti, Ilario; Orsatti, Laura; Koch, Uwe; De Francesco, Raffaele; Olsen, David B.; Carroll, Steven S.; Migliaccio, Giovanni
CORPORATE SOURCE: Department of Biochemistry, Istituto di Ricerche di Biologia Molecolare P. Angeletti (IRBM), Pomezia, Italy
SOURCE: Journal of Virology (2004), 78(2), 938-946
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Characterization of the inhibition of hepatitis C virus RNA replication by

nonnucleosides
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:39297 CAPLUS
DOCUMENT NUMBER: 140:231279
TITLE: Conserved C-terminal threonine of hepatitis C virus NS3 regulates autoproteolysis and prevents product inhibition
AUTHOR(S): Wang, Wenyan; Lahser, Frederick C.; Yi, Min Kyung; Wright-Minogue, Jacquelyn; Xia, Ellen; Weber, Patricia C.; Lemon, Stanley M.; Malcolm, Bruce A.
CORPORATE SOURCE: Department of Structural Chemistry, Schering-Plough Research Institute, Kenilworth, NJ, 07033, USA
SOURCE: Journal of Virology (2004), 78(2), 700-709
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Conserved C-terminal threonine of hepatitis C virus NS3 regulates autoproteolysis and prevents product inhibition
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 18 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:883438 CAPLUS
DOCUMENT NUMBER: 140:89538
TITLE: Direct interaction between .alpha.-actinin and hepatitis C virus NS5B
AUTHOR(S): Lan, Shuiyun; Wang, Hua; Jiang, Hong; Mao, Hongxia; Liu, Xiaoying; Zhang, Xiaonan; Hu, Yunwen; Xiang, Li; Yuan, Zhenghong
CORPORATE SOURCE: Shanghai Medical College, Key Laboratory of Medical Molecular Virology, Fudan University, Shanghai, 200032, Peop. Rep. China
SOURCE: FEBS Letters (2003), 554(3), 289-294
CODEN: FEBLAL; ISSN: 0014-5793
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Direct interaction between .alpha.-actinin and hepatitis C virus NS5B
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:811326 CAPLUS
DOCUMENT NUMBER: 139:321251
TITLE: Hepatitis C virus NS5A and subgenomic replicon activate NF-.kappa.B via tyrosine phosphorylation of I.kappa.B.alpha. and its degradation by calpain protease
AUTHOR(S): Waris, Gulam; Livolsi, Antonia; Imbert, Veronique; Peyron, Jean-Francois; Siddiqui, Aleem
CORPORATE SOURCE: Department of Microbiology and Program in Molecular Biology, University of Colorado Health Sciences Center, Denver, CO, 80262, USA
SOURCE: Journal of Biological Chemistry (2003), 278(42), 40778-40787
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Hepatitis C virus NS5A and subgenomic replicon activate NF-.kappa.B via tyrosine phosphorylation of I.kappa.B.alpha. and its degradation by calpain protease
REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 20 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:366153 CAPLUS
DOCUMENT NUMBER: 139:20427
TITLE: The Hepatitis C Virus Non-structural NS5A Protein Inhibits Activating Protein-1 Function by Perturbing Ras-ERK Pathway Signaling
AUTHOR(S): Macdonald, Andrew; Crowder, Katherine; Street, Andrew; McCormick, Christopher; Saksela, Kalle; Harris, Mark
CORPORATE SOURCE: School of Biochemistry and Molecular Biology, Division of Microbiology, University of Leeds, Leeds, LS2 9JT, UK
SOURCE: Journal of Biological Chemistry (2003), 278(20), 17775-17784
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

TI The Hepatitis C Virus Non-structural NS5A Protein Inhibits Activating Protein-1 Function by Perturbing Ras-ERK Pathway Signaling
REFERENCE COUNT: 68 THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 21 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:311405 CAPLUS
DOCUMENT NUMBER: 139:209691
TITLE: Development of a cell-based assay for monitoring specific hepatitis C virus NS3/4A protease activity in mammalian cells
AUTHOR(S): Lee, Jin-Ching; Shih, Ya-Feng; Hsu, Sung-Po; Chang, Ten-Yuan; Chen, Lee-Hua; Hsu, John T. A.
CORPORATE SOURCE: Division of Biotechnology and Pharmaceutical Research, National Health Research Institutes, Taipei, 115, Taiwan
SOURCE: Analytical Biochemistry (2003), 316(2), 162-170
CODEN: ANBCA2; ISSN: 0003-2697
PUBLISHER: Elsevier Science
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Development of a cell-based assay for monitoring specific hepatitis C virus NS3/4A protease activity in mammalian cells
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 22 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:246806 CAPLUS
DOCUMENT NUMBER: 139:67081
TITLE: Interaction with a ubiquitin-like protein enhances the ubiquitination and degradation of hepatitis C virus RNA-dependent RNA polymerase
AUTHOR(S): Gao, Lu; Tu, Hong; Shi, Stephanie T.; Lee, Ki-Jeong; Asanaka, Miyuki; Hwang, Soon B.; Lai, Michael M. C.
CORPORATE SOURCE: Department of Molecular Microbiology and Immunology, Keck School of Medicine, University of Southern California, Los Angeles, CA, 90033, USA
SOURCE: Journal of Virology (2003), 77(7), 4149-4159
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Interaction with a ubiquitin-like protein enhances the ubiquitination and degradation of hepatitis C virus RNA-dependent RNA polymerase

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 23 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:199010 CAPLUS
DOCUMENT NUMBER: 139:223763
TITLE: In vitro selection and characterization of hepatitis C virus serine protease variants resistant to an active-site peptide inhibitor
AUTHOR(S): Trozzi, Caterina; Bartholomew, Linda; Ceccacci, Alessandra; Biasiol, Gabriella; Pacini, Laura; Altamura, Sergio; Narjes, Frank; Muraglia, Ester; Paonessa, Giacomo; Koch, Uwe; De Francesco, Raffaele; Steinkuhler, Christian; Migliaccio, Giovanni
CORPORATE SOURCE: IRBM "P. Angeletti,", Rome, 00040, Italy
SOURCE: Journal of Virology (2003), 77(6), 3669-3679
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI In vitro selection and characterization of hepatitis C virus serine protease variants resistant to an active-site peptide inhibitor
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 24 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:198999 CAPLUS
DOCUMENT NUMBER: 139:31700
TITLE: 3' Nontranslated RNA signals required for replication of hepatitis c virus RNA
AUTHOR(S): Yi, MinKyung; Lemon, Stanley M.
CORPORATE SOURCE: Department of Microbiology and Immunology, The University of Texas Medical Branch at Galveston, Galveston, TX, 77555-1019, USA
SOURCE: Journal of Virology (2003), 77(6), 3557-3568
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI 3' Nontranslated RNA signals required for replication of hepatitis c virus RNA
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 25 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:375453 CAPLUS
DOCUMENT NUMBER: 137:196537
TITLE: Genetic analysis of sequences in the 3' nontranslated region of hepatitis C virus that are important for RNA replication
AUTHOR(S): Friebe, Peter; Bartenschlager, Ralf
CORPORATE SOURCE: Institute for Virology, Johannes Gutenberg University Mainz, Mainz, 55131, Germany
SOURCE: Journal of Virology (2002), 76(11), 5326-5338
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Genetic analysis of sequences in the 3' nontranslated region of hepatitis C virus that are important for RNA replication
REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 26 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:123200 CAPLUS
DOCUMENT NUMBER: 136:178940
TITLE: Cells with enhanced replication of hepatitis C virus sub-genomic RNA and its use in antiviral drug screening
INVENTOR(S): Lu, Hui-Hua; Selby, Mark
PATENT ASSIGNEE(S): Chiron Corporation, USA
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002012477	A2	20020214	WO 2001-US124276	20010803
WO 2002012477	A3	20030410		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,

KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2416633 AA 20020214 CA 2001-2416633 20010803
AU 2001078139 A5 20020218 AU 2001-78139 20010803
US 2002142455 A1 20021003 US 2001-922962 20010803
US 6660471 B2 20031209
EP 1320583 A2 20030625 EP 2001-956106 20010803
EP 1320583 B1 20060301
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
AT 318893 E 20060315 AT 2001-956106 20010803
US 2004076612 A1 20040422 US 2003-684846 20031014
PRIORITY APPLN. INFO.: US 2000-223244P P 20000804
US 2001-922962 A3 20010803
WO 2001-US24276 W 20010803
TI Cells with enhanced replication of hepatitis C virus sub-genomic RNA and its use in antiviral drug screening

L11 ANSWER 27 OF 54 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:251500 CAPLUS
DOCUMENT NUMBER: 135:18375
TITLE: Interferon-.alpha. inhibits hepatitis C virus subgenomic RNA replication by an MxA-independent pathway
AUTHOR(S): Frese, Michael; Pietschmann, Thomas; Moradpour, Darius; Haller, Otto; Bartenschlager, Ralf
CORPORATE SOURCE: Abteilung Virologie, Institut fur Medizinische Mikrobiologie und Hygiene, Universitat Freiburg, Freiburg, D-79104, Germany
SOURCE: Journal of General Virology (2001), 82(4), 723-733
CODEN: JGVIAY; ISSN: 0022-1317
PUBLISHER: Society for General Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Interferon-.alpha. inhibits hepatitis C virus subgenomic RNA replication by an MxA-independent pathway
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 28 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2006:330985 BIOSIS
DOCUMENT NUMBER: PREV200600330857

TITLE: Effect of hepatitis C virus (HCV) NS5B-nucleolin interaction on HCV replication with HCV subgenomic replicon.
AUTHOR(S): Shimakami, Tetsuro; Honda, Masao; Kusakawa, Takashi; Murata, Takayuki; Shimotohno, Kunitada; Kaneko, Shuichi; Murakami, Seishi [Reprint Author]
CORPORATE SOURCE: Kanazawa Univ, Dept Mol Oncol, Canc Res Inst, 13-1 Takara Machi, Kanazawa, Ishikawa 9200934, Japan
semuraka@kenroku.kanazawa-u.ac.jp
SOURCE: Journal of Virology, (APR 2006) Vol. 80, No. 7, pp. 3332-3340.
CODEN: JOVIAM. ISSN: 0022-538X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Jun 2006
Last Updated on STN: 28 Jun 2006
TI Effect of hepatitis C virus (HCV) NS5B-nucleolin interaction on HCV replication with HCV subgenomic replicon.

L11 ANSWER 29 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2006:253016 BIOSIS
DOCUMENT NUMBER: PREV200600249606
TITLE: Structural and biological identification of residues on the surface of NS3 helicase required for optimal replication of the hepatitis C virus.
AUTHOR(S): Mackintosh, Samuel G.; Lu, Jeff Zhiqiang; Jordan, John B.; Harrison, Melody K.; Sikora, Bartek; Sharma, Suresh D.; Cameron, Craig E.; Raney, Kevin D. [Reprint Author]; Sakon, Joshua
CORPORATE SOURCE: Univ Arkansas Med Sci, Dept Biochem and Mol Biol, Little Rock, AR 72205 USA
raneykevind@uams.edu; jsakon@uark.edu
SOURCE: Journal of Biological Chemistry, (FEB 10 2006) Vol. 281, No. 6, pp. 3528-3535.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 26 Apr 2006
Last Updated on STN: 26 Apr 2006
TI Structural and biological identification of residues on the surface of NS3 helicase required for optimal replication of the hepatitis C virus.

L11 ANSWER 30 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2006:238828 BIOSIS
DOCUMENT NUMBER: PREV200600239794
TITLE: Insertion and deletion analyses identify regions of non-structural protein 5A of Hepatitis C virus that are dispensable for viral genome replication.
AUTHOR(S): Liu, Shuanghu; Ansari, Israrul H.; Das, Subash C.; Pattnaik, Asit K. [Reprint Author]
CORPORATE SOURCE: Univ Nebraska, Dept Vet and Biomed Sci, E126 Beadle Ctr,1901 Vine St, Lincoln, NE 68588 USA
apattnaik2@unl.edu
SOURCE: Journal of General Virology, (FEB 2006) Vol. 87, No. Part 2, pp. 323-327.
CODEN: JGVIAY. ISSN: 0022-1317.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 19 Apr 2006
Last Updated on STN: 19 Apr 2006
TI Insertion and deletion analyses identify regions of non-structural protein 5A of Hepatitis C virus that are dispensable for viral genome replication.

L11 ANSWER 31 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2006:210739 BIOSIS
DOCUMENT NUMBER: PREV200600212468
TITLE: Persistence of HCV replication in sirna-treated HCV replicon cells is correlated with the development of HCV mutations.
AUTHOR(S): Konishi, Masayoshi; Kaito, Masahiko; Adachi, Yukihiko; Wu, Catherine H.; Wu, George Y.
SOURCE: Gastroenterology, (APR 2005) Vol. 128, No. 4, Suppl. 2, pp. A698.
Meeting Info.: Annual Meeting of the American-Gastroenterological-Association/Digestive-Disease-Week. Chicago, IL, USA. May 14 -19, 2005. Amer Gastroenterol Assoc.
CODEN: GASTAB. ISSN: 0016-5085.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Mar 2006
Last Updated on STN: 29 Mar 2006
TI Persistence of HCV replication in sirna-treated HCV

replicon cells is correlated with the development of HCV mutations.

L11 ANSWER 32 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2006:210729 BIOSIS
DOCUMENT NUMBER: PREV200600212458
TITLE: Tumor suppressor p53 inhibits replication of hepatitis C virus subgenomic replicon in human hepatoma cells.
AUTHOR(S): Dharel, Narayan; Kato, Naoya; Taniguchi, Hiroyoshi; Otsuka, Motoyuki; Moriyama, Masaru; Muroyama, Ryosuke; Wang, Yen; Shao, Run-Xuan; Kawabe, Takao; Omata, Masao
SOURCE: Gastroenterology, (APR 2005) Vol. 128, No. 4, Suppl. 2, pp. A696,A695.
Meeting Info.: Annual Meeting of the American-Gastroenterological-Association/Digestive-Disease-Week. Chicago, IL, USA. May 14 -19, 2005. Amer Gastroenterol Assoc.
CODEN: GASTAB. ISSN: 0016-5085.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Mar 2006
Last Updated on STN: 29 Mar 2006
TI Tumor suppressor p53 inhibits replication of hepatitis C virus subgenomic replicon in human hepatoma cells.

L11 ANSWER 33 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2006:94810 BIOSIS
DOCUMENT NUMBER: PREV200600096254
TITLE: Binding site characterization and resistance to a class of non-nucleoside inhibitors of the hepatitis C virus NS5B polymerase.
AUTHOR(S): Kukolj, George [Reprint Author]; McGibbon, Graham A.; McKercher, Ginette; Marquis, Martin; Lefebvre, Sylvain; Thauvette, Louise; Gauthier, Jean; Goulet, Sylvie; Poupart, Marc-Andre; Beaulieu, Pierre L.
CORPORATE SOURCE: 2100 Rue Cunard, Laval, PQ H7S 2G5, Canada
gkukolj@lav.boehringer-ingelheim.com
SOURCE: Journal of Biological Chemistry, (NOV 25 2005) Vol. 280, No. 47, pp. 39260-39267.
CODEN: JBCHA3. ISSN: 0021-9258.

DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 1 Feb 2006
Last Updated on STN: 1 Feb 2006
TI Binding site characterization and resistance to a class of non-nucleoside inhibitors of the hepatitis C virus NS5B polymerase.

L11 ANSWER 34 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2006:84742 BIOSIS
DOCUMENT NUMBER: PREV200600087968
TITLE: Functional analysis of RNA binding by the hepatitis C virus RNA-dependent RNA polymerase.
AUTHOR(S): Kim, Young-Chan; Russell, William K.; Ranjith-Kumar, C. T.; Thomson, Michael; Russell, David H.; Kao, C. Cheng [Reprint Author]
CORPORATE SOURCE: Texas A and M Univ, Dept Biochem and Biophys, College Stn,
TX 77843 USA
ckao@tamu.edu
SOURCE: Journal of Biological Chemistry, (NOV 11 2005) Vol. 280, No. 45, pp. 38011-38019.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Jan 2006
Last Updated on STN: 25 Jan 2006
TI Functional analysis of RNA binding by the hepatitis C virus RNA-dependent RNA polymerase.

L11 ANSWER 35 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2006:39647 BIOSIS
DOCUMENT NUMBER: PREV200600039227
TITLE: Human VAP-B is involved in hepatitis C virus replication through interaction with NS5A and NS5B.
AUTHOR(S): Hamamoto, Itsuki; Nishimura, Yorihiro; Okamoto, Toru; Aizaki, Hideki; Liu, Minyi; Mori, Yoshio; Abe, Takayuki; Suzuki, Tetsuro; Lai, Michael M. C.; Miyamura, Tatsuo; Moriishi, Kohji; Matsuura, Yoshiharu [Reprint Author]
CORPORATE SOURCE: Osaka Univ, Microbial Dis Res Inst, Dept Mol Virol, 3-1 Yamadaoka, Suita, Osaka 5650871, Japan
matsuura@biken.osaka-u.ac.jp
SOURCE: Journal of Virology, (NOV 2005) Vol. 79, No. 21, pp.

13473-13482.
CODEN: JOVIAM. ISSN: 0022-538X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Dec 2005
Last Updated on STN: 28 Dec 2005
TI Human VAP-B is involved in hepatitis C virus replication through interaction with NS5A and NS5B.

L11 ANSWER 36 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2005:455675 BIOSIS
DOCUMENT NUMBER: PREV200510233021
TITLE: Mutations conferring resistance to a hepatitis C virus (HCV) RNA-dependent RNA polymerase inhibitor alone or in combination with an HCV serine protease inhibitor in vitro.
AUTHOR(S): Mo, Hongmei [Reprint Author]; Lu, Liangjun; Pilot-Matias, Tami; Pithawalla, Ron; Mondal, Rubina; Masse, Sherie; Dekhtyar, Tatyana; Ng, Teresa; Koev, Gennadiy; Stoll, Vincent; Stewart, Kent D.; Pratt, John; Donner, Pam; Rockway, Todd; Maring, Clarence; Molla, Akhteruzzaman
CORPORATE SOURCE: Dept R47D, Bldg AP52-N,200 Abbott Pk Rd, Abbott Pk, IL 60064 USA
Hongmei.Mo@abbott.com
SOURCE: Antimicrobial Agents and Chemotherapy, (OCT 2005) Vol. 49, No. 10, pp. 4305-4314.
CODEN: AMACCQ. ISSN: 0066-4804.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Nov 2005
Last Updated on STN: 3 Nov 2005
TI Mutations conferring resistance to a hepatitis C virus (HCV) RNA-dependent RNA polymerase inhibitor alone or in combination with an HCV serine protease inhibitor in vitro.

L11 ANSWER 37 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2005:367801 BIOSIS
DOCUMENT NUMBER: PREV200510150177
TITLE: Inhibition of hepatitis C virus translation and subgenomic replication by siRNAs directed against highly conserved HCV sequence and cellular HCV cofactors.
AUTHOR(S): Korf, Mortimer; Jarczak, Dominik; Beger, Carmela; Manns, Michael P.; Krueger, Martin [Reprint Author]

CORPORATE SOURCE: Med Hsch Hannover, Dept Gastroenterol Hepatol and Endocrinol, Carl Neuberg Str 1, D-30625 Hannover, Germany krueger.martin@mh-hannover.de
SOURCE: Journal of Hepatology, (AUG 2005) Vol. 43, No. 2, pp. 225-234.
CODEN: JOHEEC. ISSN: 0168-8278.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 14 Sep 2005
Last Updated on STN: 14 Sep 2005
TI Inhibition of hepatitis C virus translation and subgenomic replication by siRNAs directed against highly conserved HCV sequence and cellular HCV cofactors.

L11 ANSWER 38 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:142311 BIOSIS
DOCUMENT NUMBER: PREV200500142761
TITLE: Efficient rescue of hepatitis C virus RNA replication by trans-complementation with nonstructural protein 5A.
AUTHOR(S): Appel, Nicole; Herian, Ulrike; Bartenschlager, Ralf [Reprint Author]
CORPORATE SOURCE: Dept Mol Virol, Univ Heidelberg, Neuenheimer Feld 345, D-69120, Heidelberg, Germany Ralf_Bartenschlager@med.uni-heidelberg.de
SOURCE: Journal of Virology, (January 2005) Vol. 79, No. 2, pp. 896-909. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 13 Apr 2005
Last Updated on STN: 13 Apr 2005
TI Efficient rescue of hepatitis C virus RNA replication by trans-complementation with nonstructural protein 5A.

L11 ANSWER 39 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:356829 BIOSIS
DOCUMENT NUMBER: PREV200400363278
TITLE: Dominant negative effect of wild-type NS5A on NS5A-adapted subgenomic hepatitis C virus RNA replicon
AUTHOR(S): Graziani, Rita; Paonessa, Giacomo [Reprint Author]
CORPORATE SOURCE: Ist Ric Biol Mol P Angeletti, Via Pontina Km 30600,

I-00040, Pomezia, Italy
giacomo_paonessa@merck.com
SOURCE: Journal of General Virology, (July 2004) Vol. 85, No. Part 7, pp. 1867-1875. print.
ISSN: 0022-1317 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 5 Sep 2004
Last Updated on STN: 5 Sep 2004
TI Dominant negative effect of wild-type NS5A on NS5A-adapted subgenomic hepatitis C virus RNA replicon.

L11 ANSWER 40 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:325860 BIOSIS
DOCUMENT NUMBER: PREV200400327486
TITLE: Mutational analysis of hepatitis C virus NS5B in the subgenomic replicon cell culture.
AUTHOR(S): Ma, Yuanyuan; Shimakami, Tetsuro; Luo, Hong; Hayashi, Naoyuki; Murakami, Seishi [Reprint Author]
CORPORATE SOURCE: Canc Res InstDept Mol Oncol, Kanazawa Univ, 13-1 Takara Machi, Kanazawa, Ishikawa, 9200934, Japan
semuraka@kenroku.kanazawa-u.ac.jp
SOURCE: Journal of Biological Chemistry, (June 11 2004) Vol. 279, No. 24, pp. 25474-25482. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 29 Jul 2004
Last Updated on STN: 29 Jul 2004
TI Mutational analysis of hepatitis C virus NS5B in the subgenomic replicon cell culture.

L11 ANSWER 41 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:270606 BIOSIS
DOCUMENT NUMBER: PREV200400270690
TITLE: In vitro resistance studies of hepatitis C virus serine protease inhibitors, VX-950 and BILN 2061 - Structural analysis indicates different resistance mechanisms.
AUTHOR(S): Lin, Chao [Reprint Author]; Lin, Kai; Luong, Yu-Ping; Rao, B. Govinda; Wei, Yun-Yi; Brennan, Debra L.; Fulghum, John R.; Hsiao, Hsun-Mei; Ma, Sue; Maxwell, John P.; Cottrell, Kevin M.; Perni, Robert B.; Gates, Cynthia A.; Kwong, Ann

D.
CORPORATE SOURCE: Vertex Pharmaceut Inc, 130 Waverly St, Cambridge, MA, 02139, USA
chao_lin@vrtx.com
SOURCE: Journal of Biological Chemistry, (April 23 2004) Vol. 279, No. 17, pp. 17508-17514. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
OTHER SOURCE: DDBJ-CAB46913; EMBL-CAB46913; GenBank-CAB46913
ENTRY DATE: Entered STN: 26 May 2004
Last Updated on STN: 26 May 2004
TI In vitro resistance studies of hepatitis C virus serine protease inhibitors, VX-950 and BILN 2061 - Structural analysis indicates different resistance mechanisms.

L11 ANSWER 42 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2004:269442 BIOSIS
DOCUMENT NUMBER: PREV200400264651
TITLE: Induced oxidative stress and activated expression of manganese superoxide dismutase during hepatitis C virus replication: role of JNK, p38 MAR and AP-1.
AUTHOR(S): Qadri, Ishtiaq [Reprint Author]; Iwahashi, Mieko; Capasso, Juan M.; Hopken, Matthew W.; Flores, Sonia; Schaack, Jerome; Simon, Francis R.
CORPORATE SOURCE: Hlth Sci CtrDept MedDiv Gastroenterol & Hepatol, Univ Colorado, 4200 E 9th Ave, Denver, CO, 80262, USA
ishtiaq.qadri@uchsc.edu
SOURCE: Biochemical Journal, (March 15 2004) Vol. 378, No. Part 3, pp. 919-928. print.
ISSN: 0264-6021.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 26 May 2004
Last Updated on STN: 26 May 2004
TI Induced oxidative stress and activated expression of manganese superoxide dismutase during hepatitis C virus replication: role of JNK, p38 MAR and AP-1.

L11 ANSWER 43 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2004:225799 BIOSIS
DOCUMENT NUMBER: PREV200400226620

TITLE: The C-terminal transmembrane domain of hepatitis C virus (HCV) RNA polymerase is essential for HCV replication in vivo.
AUTHOR(S): Lee, Ki Jeong; Choi, Jinah; Ou, Jing-hsiung; Lai, Michael M. C. [Reprint Author]
CORPORATE SOURCE: Department of Molecular Microbiology and Immunology, Keck School of Medicine, University of Southern California, 2011 Zonal Ave., HMR-401, Los Angeles, CA, 90033, USA michlai@usc.edu
SOURCE: Journal of Virology, (April 2004) Vol. 78, No. 7, pp. 3797-3802. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 21 Apr 2004
Last Updated on STN: 21 Apr 2004
TI The C-terminal transmembrane domain of hepatitis C virus (HCV) RNA polymerase is essential for HCV replication in vivo.

L11 ANSWER 44 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:111666 BIOSIS
DOCUMENT NUMBER: PREV200400113601
TITLE: Characterization of the inhibition of hepatitis C virus RNA replication by nonnucleosides.
AUTHOR(S): Tomei, Licia; Altamura, Sergio; Bartholomew, Linda; Bisbocci, Monica; Bailey, Carolyn; Bosserman, Michele; Cellucci, Antonella; Forte, Eleonora; Incitti, Ilario; Orsatti, Laura; Koch, Uwe; De Francesco, Raffaele; Olsen, David B.; Carroll, Steven S. [Reprint Author]; Migliaccio, Giovanni
CORPORATE SOURCE: Department of Biological Chemistry, Merck Research Laboratories, West Point, PA, 19486, USA steve_carroll@merck.com; giovanni_migliaccio@merck.com
SOURCE: Journal of Virology, (January 2004) Vol. 78, No. 2, pp. 938-946. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Feb 2004
Last Updated on STN: 25 Feb 2004
TI Characterization of the inhibition of hepatitis C virus RNA replication by nonnucleosides.

L11 ANSWER 45 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2004:102515 BIOSIS
DOCUMENT NUMBER: PREV200400104193
TITLE: Conserved C-terminal threonine of hepatitis C virus NS3 regulates autoproteolysis and prevents product inhibition.
AUTHOR(S): Wang, Wenyan; Lahser, Frederick C.; Yi, Minkyung; Wright-Minogue, Jacquelyn; Xia, Ellen; Weber, Patricia C.; Lemon, Stanley M.; Malcolm, Bruce A. [Reprint Author]
CORPORATE SOURCE: Department of Antiviral Therapeutics, Schering-Plough Research Institute, 2015 Galloping Hill Rd., K-15-4945, Kenilworth, NJ, 07033, USA
bruce.malcolm@spcorp.com
SOURCE: Journal of Virology, (January 2004) Vol. 78, No. 2, pp. 700-709. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 18 Feb 2004
Last Updated on STN: 18 Feb 2004
TI Conserved C-terminal threonine of hepatitis C virus NS3 regulates autoproteolysis and prevents product inhibition.

L11 ANSWER 46 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2003:587925 BIOSIS
DOCUMENT NUMBER: PREV200300570722
TITLE: Direct interaction between alpha-actinin and hepatitis C virus NS5B.
AUTHOR(S): Lan, Shuiyun; Wang, Hua; Jiang, Hong; Mao, Hongxia; Liu, Xiaoying; Zhang, Xiaonan; Hu, Yunwen; Xiang, Li; Yuan, Zhenghong [Reprint Author]
CORPORATE SOURCE: Key Laboratory of Medical Molecular Virology, Shanghai Medical College, Fudan University, Shanghai, 200032, China
zhyuan@shmu.edu.cn
SOURCE: FEBS Letters, (20 November 2003) Vol. 554, No. 3, pp. 289-294. print.
CODEN: FEBLAL. ISSN: 0014-5793.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Dec 2003
Last Updated on STN: 10 Dec 2003
TI Direct interaction between alpha-actinin and hepatitis C virus NS5B.

L11 ANSWER 47 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2003:577604 BIOSIS
DOCUMENT NUMBER: PREV200300583408
TITLE: Hepatitis C virus NS5A and subgenomic replicon activate NF-kappaB via tyrosine phosphorylation of IkappaBalpha and its degradation by calpain protease.
AUTHOR(S): Waris, Gulam; Livolsi, Antonia; Imbert, Veronique; Peyron, Jean-Francois; Siddiqui, Aleem [Reprint Author]
CORPORATE SOURCE: Department of Microbiology and Program in Molecular Biology, University of Colorado Health Sciences Center, B-172, Denver, CO, 80262, USA
aleem.siddiqui@uchsc.edu
SOURCE: Journal of Biological Chemistry, (October 17 2003) Vol. 278, No. 42, pp. 40778-40787. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 10 Dec 2003
Last Updated on STN: 10 Dec 2003
TI Hepatitis C virus NS5A and subgenomic replicon activate NF-kappaB via tyrosine phosphorylation of IkappaBalpha and its degradation by calpain protease.

L11 ANSWER 48 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
ACCESSION NUMBER: 2003:320536 BIOSIS
DOCUMENT NUMBER: PREV200300320536
TITLE: The hepatitis C virus non-structural NS5A protein inhibits activating protein-1 function by perturbing Ras-ERK pathway signaling.
AUTHOR(S): Macdonald, Andrew; Crowder, Katherine; Street, Andrew; McCormick, Christopher; Saksela, Kalle; Harris, Mark [Reprint Author]
CORPORATE SOURCE: Division of Microbiology, School of Biochemistry and Molecular Biology, University of Leeds, Leeds, LS2 9JT, UK
mharris@bmb.leeds.ac.uk
SOURCE: Journal of Biological Chemistry, (May 16 2003) Vol. 278, No. 20, pp. 17775-17784. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 Jul 2003

Last Updated on STN: 9 Jul 2003
TI The hepatitis C virus non-structural NS5A protein inhibits activating protein-1 function by perturbing Ras-ERK pathway signaling.

L11 ANSWER 49 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:298791 BIOSIS
DOCUMENT NUMBER: PREV200300298791
TITLE: Development of a cell-based assay for monitoring specific hepatitis C virus NS3/4A protease activity in mammalian cells.
AUTHOR(S): Lee, Jin-Ching; Shih, Ya-Feng; Hsu, Sung-Po; Chang, Ten-Yuan; Chen, Lee-Hua; Hsu, John T. A. [Reprint Author]
CORPORATE SOURCE: Division of Biotechnology and Pharmaceutical Research, National Health Research Institutes, Taipei, 115, Taiwan
tsuanhsu@nhri.org.tw
SOURCE: Analytical Biochemistry, (May 15 2003) Vol. 316, No. 2, pp. 162-170. print.
ISSN: 0003-2697 (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Jun 2003
Last Updated on STN: 25 Jun 2003
TI Development of a cell-based assay for monitoring specific hepatitis C virus NS3/4A protease activity in mammalian cells.

L11 ANSWER 50 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:212227 BIOSIS
DOCUMENT NUMBER: PREV200300212227
TITLE: Interaction with a ubiquitin-like protein enhances the ubiquitination and degradation of hepatitis C virus RNA-dependent RNA polymerase.
AUTHOR(S): Gao, Lu; Tu, Hong; Shi, Stephanie T.; Lee, Ki-Jeong; Asanaka, Miyuki; Hwang, Soon B.; Lai, Michael M. C. [Reprint Author]
CORPORATE SOURCE: Department of Molecular Microbiology and Immunology, University of Southern California School of Medicine, 2011 Zonal Ave., HMR-401, Los Angeles, CA, 90033-1054, USA
michlai@hsc.usc.edu
SOURCE: Journal of Virology, (April 2003) Vol. 77, No. 7, pp. 4149-4159. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article

LANGUAGE: English
ENTRY DATE: Entered STN: 30 Apr 2003
Last Updated on STN: 30 Apr 2003
TI Interaction with a ubiquitin-like protein enhances the ubiquitination and degradation of hepatitis C virus RNA-dependent RNA polymerase.

L11 ANSWER 51 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:182660 BIOSIS
DOCUMENT NUMBER: PREV200300182660
TITLE: In vitro selection and characterization of hepatitis C virus serine protease variants resistant to an active-site peptide inhibitor.
AUTHOR(S): Trozzi, Caterina; Bartholomew, Linda; Ceccacci, Alessandra; Biasiol, Gabriella; Pacini, Laura; Altamura, Sergio; Narjes, Frank; Muraglia, Ester; Paonessa, Giacomo; Koch, Uwe; De Francesco, Raffaele; Steinkuhler, Christian; Migliaccio, Giovanni [Reprint Author]
CORPORATE SOURCE: IRBM "P. Angeletti", Via Pontina Km 30.600, 00040, Pomezia, Rome, Italy
giovanni_migliaccio@merck.com
SOURCE: Journal of Virology, (March 2003) Vol. 77, No. 6, pp. 3669-3679. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 Apr 2003
Last Updated on STN: 9 Apr 2003
TI In vitro selection and characterization of hepatitis C virus serine protease variants resistant to an active-site peptide inhibitor.

L11 ANSWER 52 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:182645 BIOSIS
DOCUMENT NUMBER: PREV200300182645
TITLE: 3' Nontranslated RNA signals required for replication of hepatitis C virus RNA.
AUTHOR(S): Yi, Minkyung; Lemon, Stanley M. [Reprint Author]
CORPORATE SOURCE: Department of Microbiology and Immunology, Medical Branch at Galveston, University of Texas, 301 University Blvd., Galveston, TX, 77555-1019, USA
smlemon@utmb.edu

SOURCE: Journal of Virology, (March 2003) Vol. 77, No. 6, pp. 3557-3568. print.
ISSN: 0022-538X (ISSN print).
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 Apr 2003
Last Updated on STN: 9 Apr 2003
TI 3' Nontranslated RNA signals required for replication of hepatitis C virus RNA.

L11 ANSWER 53 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2002:337026 BIOSIS
DOCUMENT NUMBER: PREV200200337026
TITLE: Genetic analysis of sequences in the 3' nontranslated region of hepatitis C virus that are important for RNA replication.
AUTHOR(S): Friebe, Peter; Bartenschlager, Ralf [Reprint author]
CORPORATE SOURCE: Abteilung Molekulare Virologie, Hygiene-Institut, Otto-Meyerhof-Zentrum, Ruprecht-Karls-Universitaet Heidelberg, Im Neuenheimer Feld 350, 69120, Heidelberg, Germany
Ralf_Bartenschlager@med.uni-heidelberg.de
SOURCE: Journal of Virology, (June, 2002) Vol. 76, No. 11, pp. 5326-5338. print.
CODEN: JOVIAM. ISSN: 0022-538X.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 12 Jun 2002
Last Updated on STN: 12 Jun 2002
TI Genetic analysis of sequences in the 3' nontranslated region of hepatitis C virus that are important for RNA replication.

L11 ANSWER 54 OF 54 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2001:222240 BIOSIS
DOCUMENT NUMBER: PREV200100222240
TITLE: Interferon-alpha inhibits hepatitis C virus subgenomic RNA replication by an MxA-independent pathway.
AUTHOR(S): Frese, Michael; Pietschmann, Thomas; Moradpour, Darius; Haller, Otto; Bartenschlager, Ralf [Reprint author]
CORPORATE SOURCE: Institut fuer Virologie, Universitaet Mainz, Obere Zahlbacher Str. 67, D-55131, Mainz, Germany

bartnsch@mail.uni-mainz.de
SOURCE: Journal of General Virology, (April, 2001) Vol. 82, No. 4, pp. 723-733. print.
CODEN: JGVIAY. ISSN: 0022-1317.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 9 May 2001
Last Updated on STN: 18 Feb 2002
TI Interferon-alpha inhibits hepatitis C virus subgenomic RNA replication by an MxA-independent pathway.